

Information Sharing in the UK

Andrew Powell, Information Sharing Workshop, Amsterdam, 16 March 2010

CPNI
Centre for the Protection of National Infrastructure

Objectives

- UK Information sharing activities
- Role of private sector
- Role of public sector
- Critique
- Input to pan-European initiatives



Why Share Information

- •1+1>0
- Need: much infrastructure is privately owned and operated
- Regulation is a blunt instrument
- Sharing promotes agility to change
- Added value for all



The Ingredients for sharing

- A basis for trust
 - -Openness
 - –Confidentiality
 - –Honesty
 - –Regular contact
- Information sharing protocol



What the UK is sharing

- Risks and their mitigation
- Private sector-to-private sector security incident and vulnerability information
- •Private sector-to-public sector confidential incident and vulnerability reporting where public sector can *respond and warn*
- Public sector issued good practices and incident and vulnerability alerts
 - -Has to be relevant to the UK's Critical Infrastructure Protection (CIP)
 - -Based on partnership with private sector



UK's Information Sharing Initiatives

- Information exchanges
- Information sharing portals
- Warning, advice and reporting points
 - -http://www.warp.gov.uk/
- Support for international groups and projects
- Other information sharing activities



Information Exchange Structure

- Trusted group of private sector and public sector representatives
- Rules of membership
- No cost to members
- 2 members per organisation
- Cannot delegate outside of prime and deputy members
- Information sharing protocol



Information Exchange Structure

- Private sector and public sector co-chairs
- CPNI co-ordinator generally
- CPNI hosted generally
- Always face-to-face meetings
- Supported by email and members only extranet web pages
- Some information exchanges have working groups which develop good practice



Information Exchange Structure

- New members elected by all members
- Shared area on extranet for all information exchanges
- Joint information exchange sharing day in 2008
- Access to security advice documents from CPNI

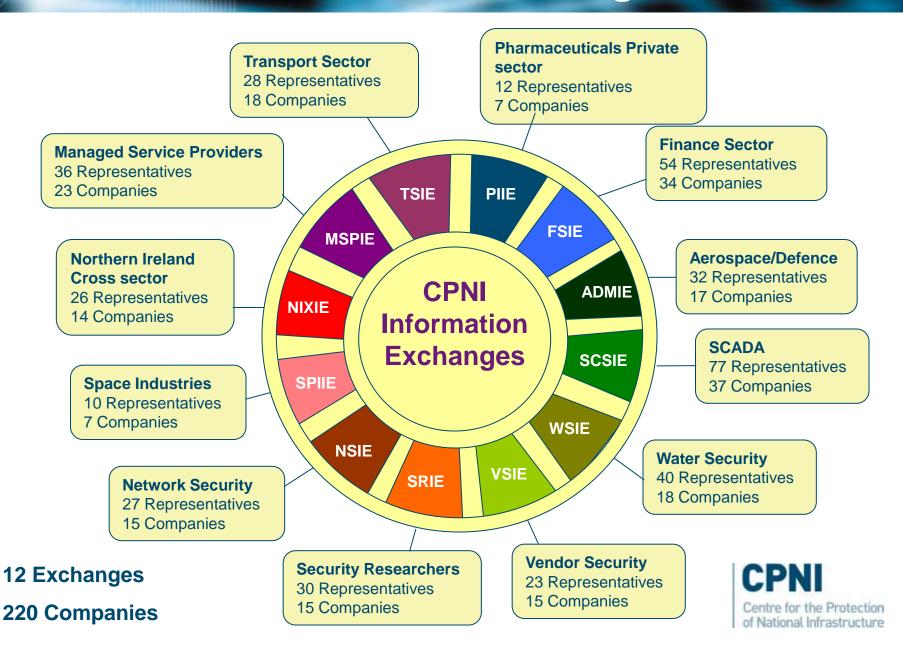


Information Exchange History

- •First one established in 2003 using the model of the US Network Security Information Exchange
- Currently 12 information exchanges
- Based on sector, technology or activity
- Trust can take up to 2 years to establish



Information Exchanges



Information Exchange Working Groups

- Across information exchanges. Published papers on:
 - -Ethernet switches
 - –Outsourcing
 - –Protecting data centres
 - -Server virtualisation



International Activity

- •CPNI supports EP3R and other European Commission initiatives
- CPNI supports ENISA initiatives
- •CPNI contributes to international CSIRT groups such as the European Government CSIRTs group and FIRST
- •CPNI contributes to MERIDIAN, an international Public sector CIIP group using a traffic light information sharing protocol



International Activity

- •CPNI supports the International CIIP directory
- •CPNI participates in the European SCADA and Control Systems Information Exchange (e-SCSIE)
- •CPNI promotes the formation of Warning, Advice and Reporting Points (WARPs) and Information Exchanges



Other Information Sharing Activities

- •CPNI participates in information sharing groups nationally and internationally
- CPNI tries not "to re-invent the wheel"
- •CPNI provides advice on setting up information sharing groups to UK organisations



Role of Private Sector

- Private sector form the primary membership of the exchange
- Private sector sets the direction of the exchange
- Private sector brings knowledge of good practice
- Private sector knows what can be achieved



Role of Public Sector

- Public sector provides the trusted environment
- Public sector has specialist knowledge
 - -Policy/Laws/Regulations
 - -Hazards/Threat/Vulnerabilities
- Public sector can represent a consensus position



Information Exchange Critique

- Establishing and maintaining trust is key
- Not scalable to large groups
- Must be face-to-face
- Large groups undermine trust
- Change of membership ("churn") undermines trust
- Non-contribution ("lurking") undermines trust

Possible Futures

- To address scalability:
 - -Federated information sharing structures
 - -Group of all information exchanges
- To address legal and regulatory changes:
 - –Agree system of internal need-to-know controls so that law makers and regulators can be aware of problems without penalising honesty of participants



Possible Futures

- •To address balance between need-to-know and need-to-share:
 - -Education that AMBER means that you should share within your company
 - –More GREEN information on organisational intranets.



Application to Pan-European Initiatives

- National information sharing groups
- Information sharing protocol
- Knowledge transfer from mature national initiatives
- Sharing between member states
- •Facilitation by ENISA ("providing the trusted environment")



Application to Pan-European Initiatives

- Good practice outputs
- Addressing the regulatory challenges
 - Dialogue with private sector
- Awareness of key common risks
- A plan to address those risks



Questions

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